

42. A method of fabricating crystalline material comprising:

providing a first crystalline substrate material having a first surface and a second surface;

forming a first thickness of first crystalline material overlying the first surface of the first crystalline substrate material, the first crystalline material having a first coefficient of thermal expansion; 5

providing a second crystalline substrate material having a first surface and a second surface; 10

forming a second thickness of second crystalline material overlying the first surface of the second crystalline substrate material, the second crystalline material having a second coefficient of thermal expansion, such that the coefficient of thermal expansion of the second crystalline material is substantially the same as the coefficient of thermal expansion of the first crystalline material; and 15

forming a composite structure containing the first crystalline substrate material, the first crystalline material, the second crystalline substrate material, and the second crystalline material such that the surface of the first crystalline material is disposed opposite the surface of the second crystalline material. 20

43. The method of claim **42** wherein the composite structure is configured to be substantially free from bow. 25

44. The method of claim **43** wherein the composite structure is configured so the first crystalline material or the second crystalline material is substantially free from bow.

45. The method of claim **43** wherein a material is disposed between the first crystalline substrate material and the second crystalline substrate material. 30

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